



Machine Guidance for Trenching Machines

ACCURATE AND EFFICIENT TRENCHING OPERATIONS

Trimble Trenching Machine Guidance systems are flexible, high-performance positioning systems that improve the visibility, safety, efficiency and productivity of trenching and pipe-laying operations. The system provides accurate 3D visualization to assist the operator with trenching workflows.

- ▶ Accurate trench depth monitoring to within +/- 20 mm*
- ▶ Up to 50% more productivity per day*
- ▶ Helps the trenching operator progress faster than the pipe-laying team
- ▶ Safer sites with reduced need for personnel in/near the trench
- ▶ Lower labor costs and less need for surveyors on site, stakeless workflow
- ▶ Works at night or in dusty environments (no need for lasers)
- ▶ Save time without the need to reset lasers for grade changes
- ▶ More detailed and more accurate as-builts

** As reported by Trimble customers.*

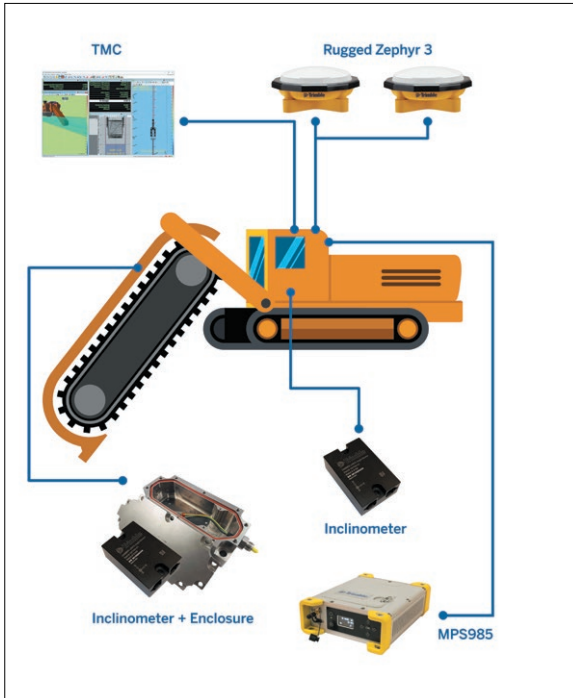


Features

- ▶ Clear tolerance visualization provides the operator with clear, simple guidance for accurate, efficient trenching
- ▶ Multiple viewpoints: Real-time view for the operator with the plan and profile views displaying the trenching boom outline and the surveyed surface, design and cut depth
- ▶ Robust and reliable solutions maximize uptime: Hardware, sensors, enclosures suitable for vibration, dusty environments
- ▶ Digital workflow to import or build project design and survey models in the office or field
- ▶ Customize over-depth and under-depth tolerances for the project
- ▶ Surface Digital Terrain Model (DTM) is updated in real-time registering the progress of the trenching work showing depth, differential and production models all updated according to progress of the cutter head.
- ▶ Administrator can configure and lock screens for the operator
- ▶ Create and import trenching machine models from CAD software (e.g. SketchUp®)



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Suitable for

- ▶ Pipeline distribution, power, water, sewer, gas, and underdrain installations
- ▶ Chain trenchers in soft soils and wheel trenchers for cutting rock

How it works

Components

- ▶ TMC Trencher visualization system, including in-cab monitor
- ▶ Trimble MPS865 GNSS receiver
- ▶ Pitch, roll and inclinometer sensors in rugged industrial grade enclosures
- ▶ Rugged Trimble Zephyr dual antennas on short masts
- ▶ RTK or RTX correction source

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